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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

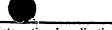
(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference 3950 PCT | FOR FURTHER ACTI | ION See Form I | PCT/IPEA/416 | | |
|---|--|----------------------|---|--|--|
| International application No. | International filing date (day/month/year) Priority date (day/month/year) | | Priority date (day/month/year) | | |
| PCT/SE2003/001768 | 14-11-2003 | | 18-11-2002 | | |
| International Patent Classification (IPC) or national classification and IPC | | | | | |
| H01P 1/16 | | | | | |
| Applicant | | | ······································ | | |
| Saab AB et al | | | | | |
| | | | | | |
| This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. | | | | | |
| 2. This REPORT consists of a total | of 3 sheets, | including this cover | r sheet. | | |
| 3. This report is also accompanied b | y ANNEXES, comprising: | | | | |
| a. (sent to the applicant | and to the International Bi | ureau) a total of | sheets, as follows: | | |
| · | | , – | e been amended and are the basis of this report | | |
| and/or sheets | | | thority (see Rule 70.16 and Section 607 of the | | |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | | |
| | | | | | |
| b (sent to the Internation | | | number of electronic carrier(s)) | | |
| , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). | | | | | |
| 4. This report contains indications re | elating to the following iten | ns: | | | |
| Box No. I Basis o | f the report | | | | |
| Box No. II Priority | 1 | | | | |
| Box No. III Non-es | tablishment of opinion with | regard to novelty, | inventive step and industrial applicability | | |
| Box No. IV Lack of | funity of invention | | | | |
| | ned statement under Article 35(2) with regard to novelty, inventive step or industrial ability; citations and explanations supporting such statement | | | | |
| Box No. VI Certain | documents cited | | | | |
| Box No. VII Certain | defects in the international application | | | | |
| Box No. VIII Certain | observations on the interna | ational application | | | |
| Date of submission of the demand | | Date of completion | of this report | | |
| Date of submission of the demand | | Date of completion | or mis report | | |
| 17-06-2004 | | 07-02-2005 | | | |
| Name and mailing address of the IPEA/SE | | Authorized officer | | | |
| Patent- och registreringsverket Box 5055 | | | | | |
| S-102 42 STOCKHOLM | | Bo Gustavs | sson/MN | | |
| Facsimile No. +46 8 667 72 88 | | | 6 8 782 25 00 | | |

Form PCT/IPEA/409 (cover sheet) (January 2004)



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



International application No.

PCT/SE2003/001768

| Bo | ox No. I | I Basis of the report | |
|----|-----------|--|---|
| 1. | With to | h regard to the language, this report is based on the international application in the language in erwise indicated under this item. | which it was filed, unless |
| | LJ | This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of: | · · · · · · · · · · · · · · · · · · · |
| | | international search (under Rules 12.3 and 23.1(b)) | |
| | | publication of the international application (under Rule 12.4) | |
| | | international preliminary examination (under Rules 55.2 and/or 55.3) | |
| 2. | jurnisi | n regard to the elements of the international application, this report is based on (replacement ished to the receiving Office in response to an invitation under Article 14 are referred to in this reare not annexed to this report): | t sheets which have been eport as "originally filed" |
| | \bowtie | the international application as originally filed/furnished | |
| | | the description: | |
| l | | | originally filed/furnished |
| l | | pages* received by this Authority on | |
| l | l | pages* received by this Authority on | |
| ļ | | the claims: | |
| | | | riginally filed/furnished |
| | | as afficience with any state | tement) under Article 19 |
| | | pages* received by this Authority on pages* received by this Authority on | |
| | | the drawings: | |
| | <u> </u> | nages | riginally filed/furnished |
| | | pages* received by this Authority on | iginally lifethiuminous |
| | | pages* received by this Authority on | |
| | | a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing | |
| 3. | | The amendments have resulted in the cancellation of: | |
| | | the description, pages | |
| | | the claims, Nos. | - |
| | | the drawings, sheets/figs | |
| | | the sequence listing (specify): | - |
| | | any table(s) related to the sequence listing (specify): | - |
| 4. | | This report has been established as if (some of) the amendments annexed to this report and limade, since they have been considered to go beyond the disclosure as filed, as indicated in the 70.2(c)). | isted below had not been Supplemental Box (Rule |
| | | the description, pages | |
| | | the claims, Nos. | - |
| | | the drawings, sheets/figs | - |
| | | | _ |
| | | the sequence listing (specify): any table(s) related to the sequence listing (specify): | _ |
| * | If item | n 4 applies, some or all of those sheets may be marked "superseded." | - |



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001768

| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
|-----------|---|
| | |

1. Statement

Novelty (N) Claims YES 1-16 Claims NO Inventive step (IS) Claims 1-16 YES Claims NO Industrial applicability (IA) YES Claims _1-16 Claims NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: EP 0 330 539 A1

D2: GB 468 548 A

D3: IEEE MTT-S Digest, 1998, Vol. 1, p. 249-252

D4: US 4 999 591 A1

D5: IEEE Trans. on Microwave Theory and Techniques, 1997, Vol.

4, p. 552-554

D6: Int. J. Electronics, 1984, Vol. 57, No. 6, p. 1219-1224

The cited documents represent the general state of the art. The invention defined in claims 1-16 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method for conversion of waveguide modes and mode converter. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-16 is novel and is considered to involve an inventive step. The invention is industrially applicable.